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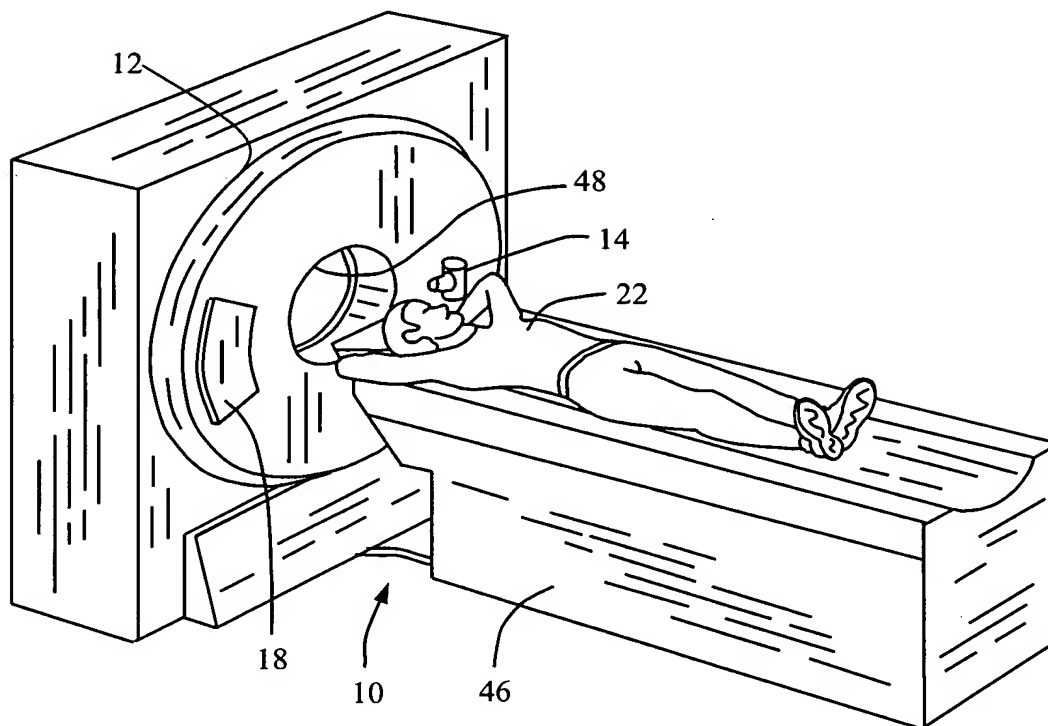


FIG. 1

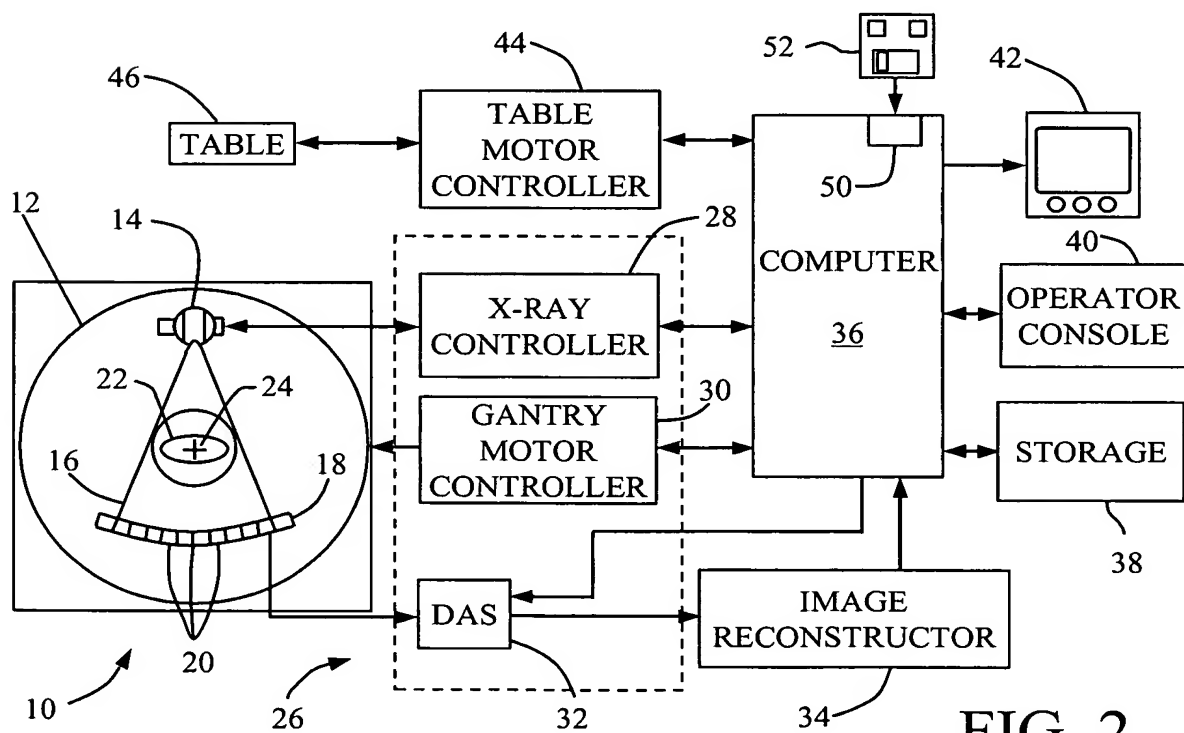
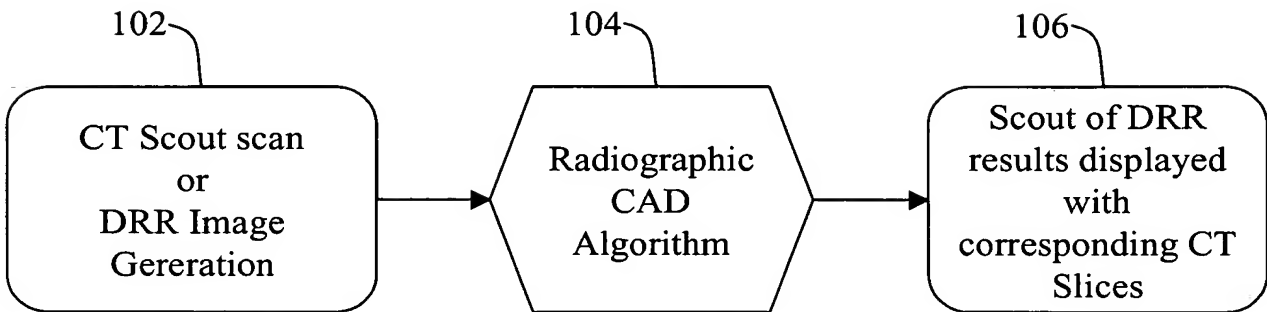


FIG. 2



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100 → FIG. 3

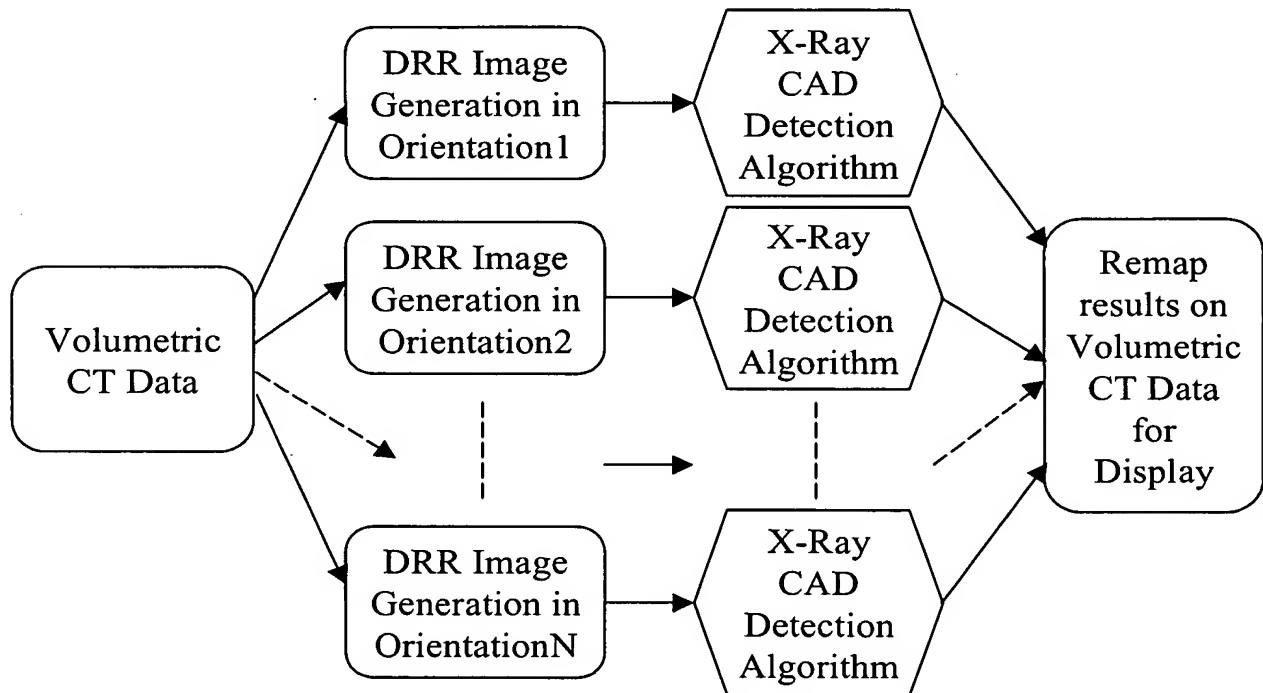


FIG. 4



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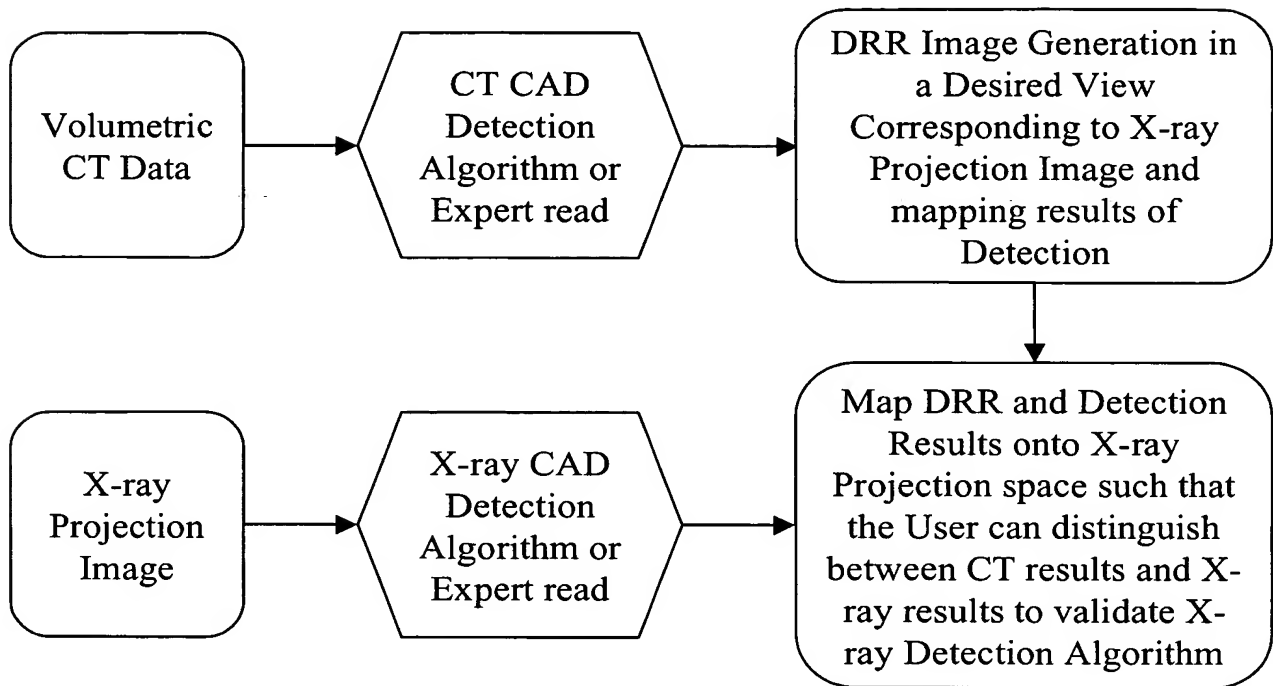


FIG. 5

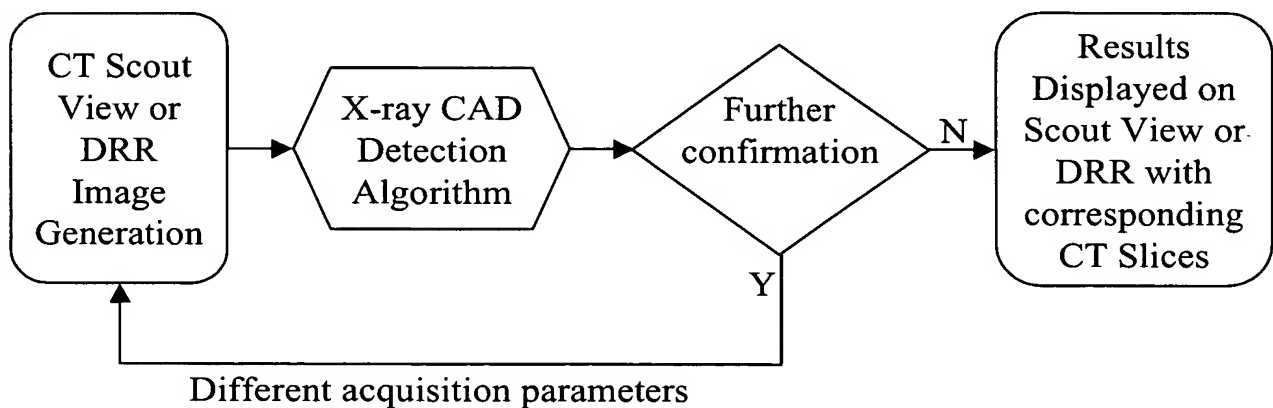


FIG. 6

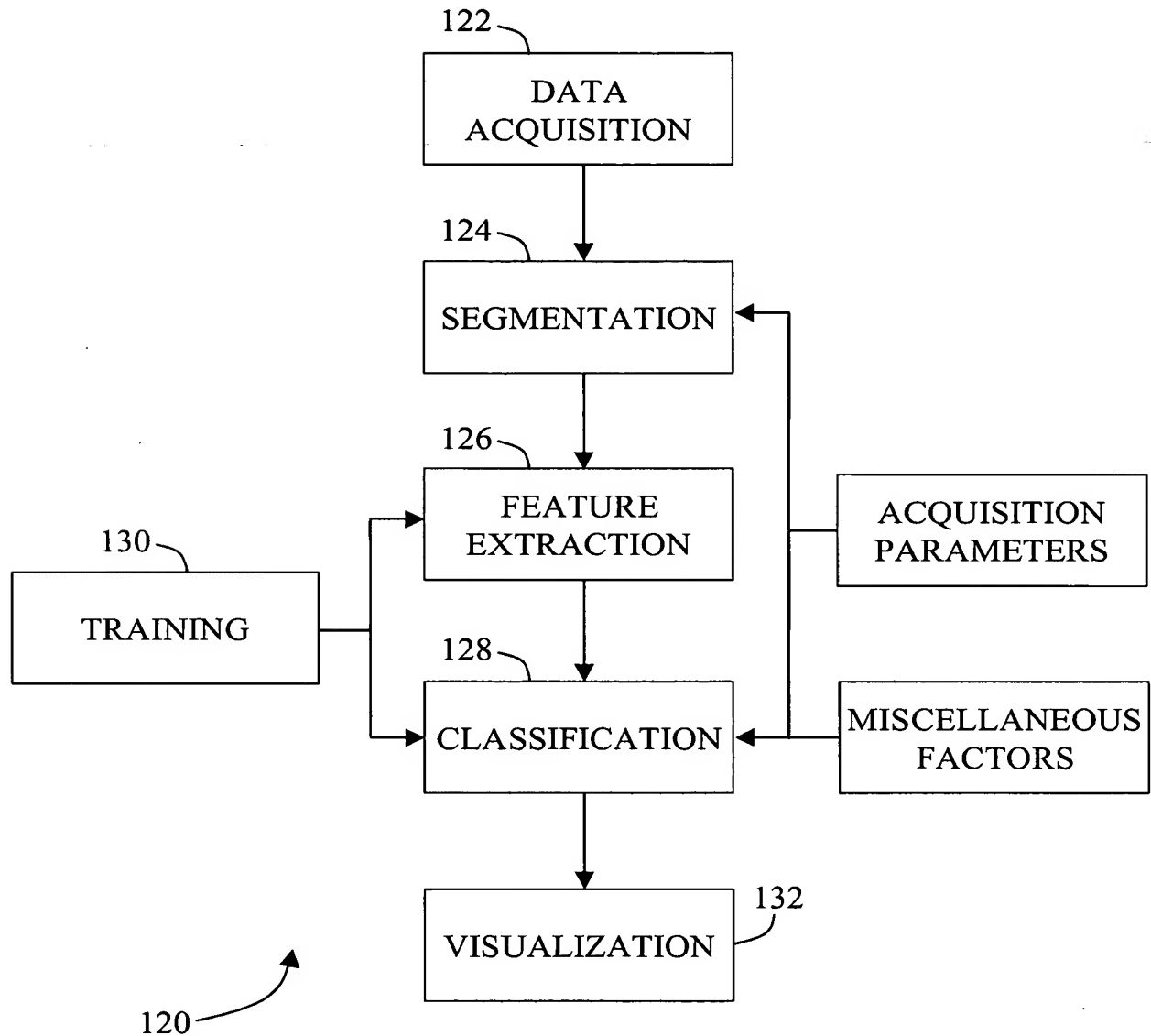


FIG. 7 Schematic of CAD process.



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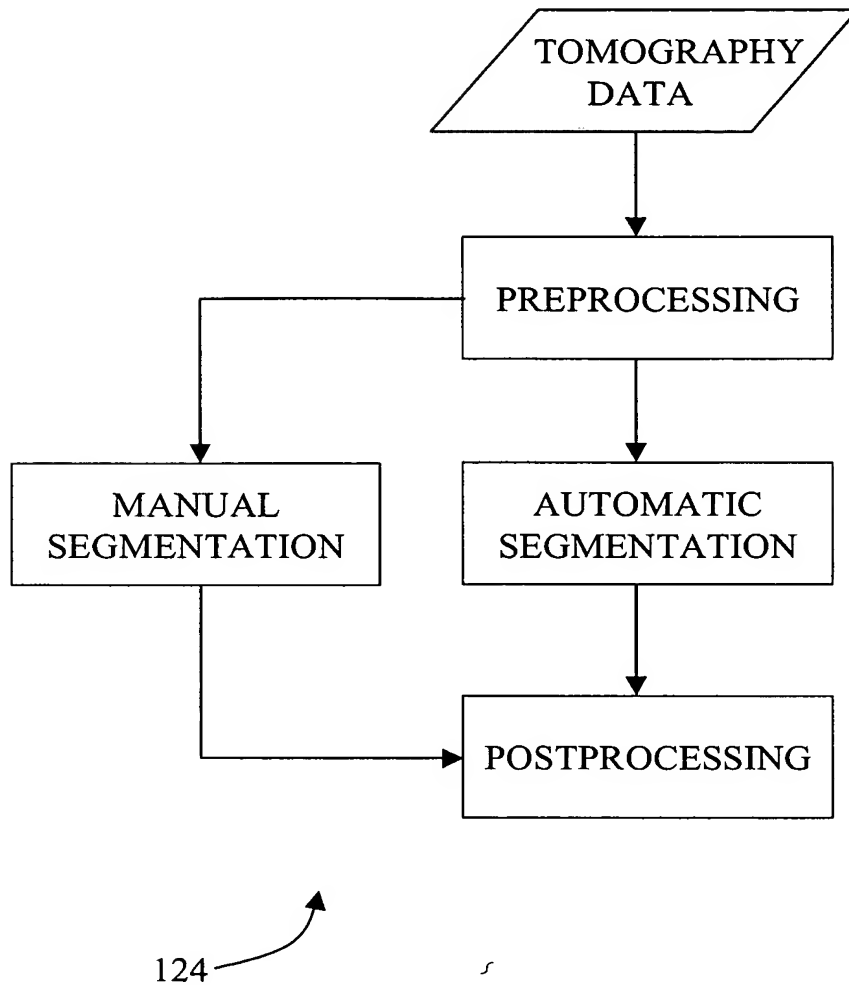


FIG. 8 Segmentation process for data.



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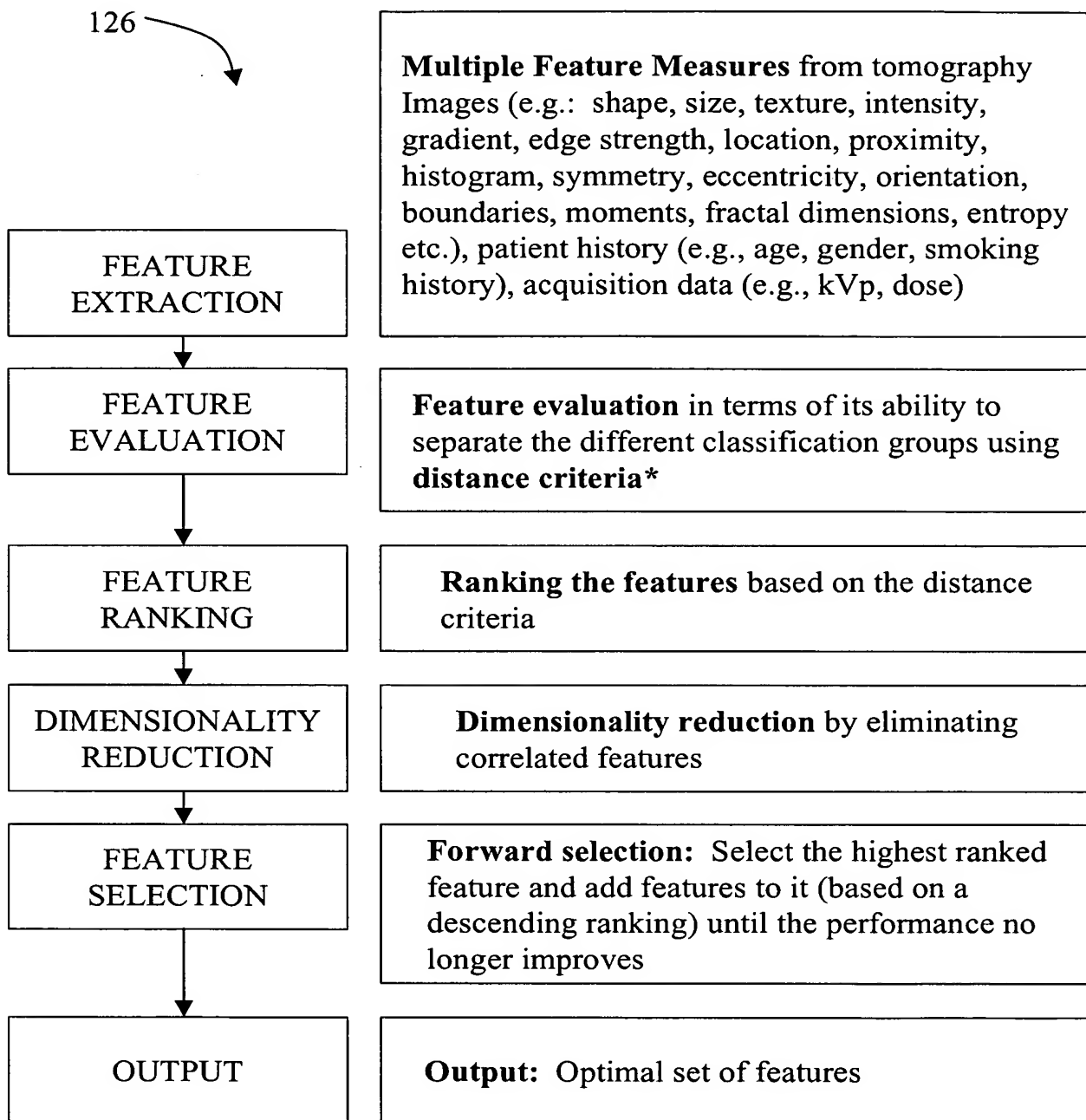


FIG. 9 Feature selection process for data.

*Several different distance criteria can be used: Divergence, Bhattacharya distance, Mahalanobis distance. These techniques are described in standard textbooks including: K. Fukunaga, Introduction to Statistical Pattern Recognition. Academic Press, 2nd ed., 1990.



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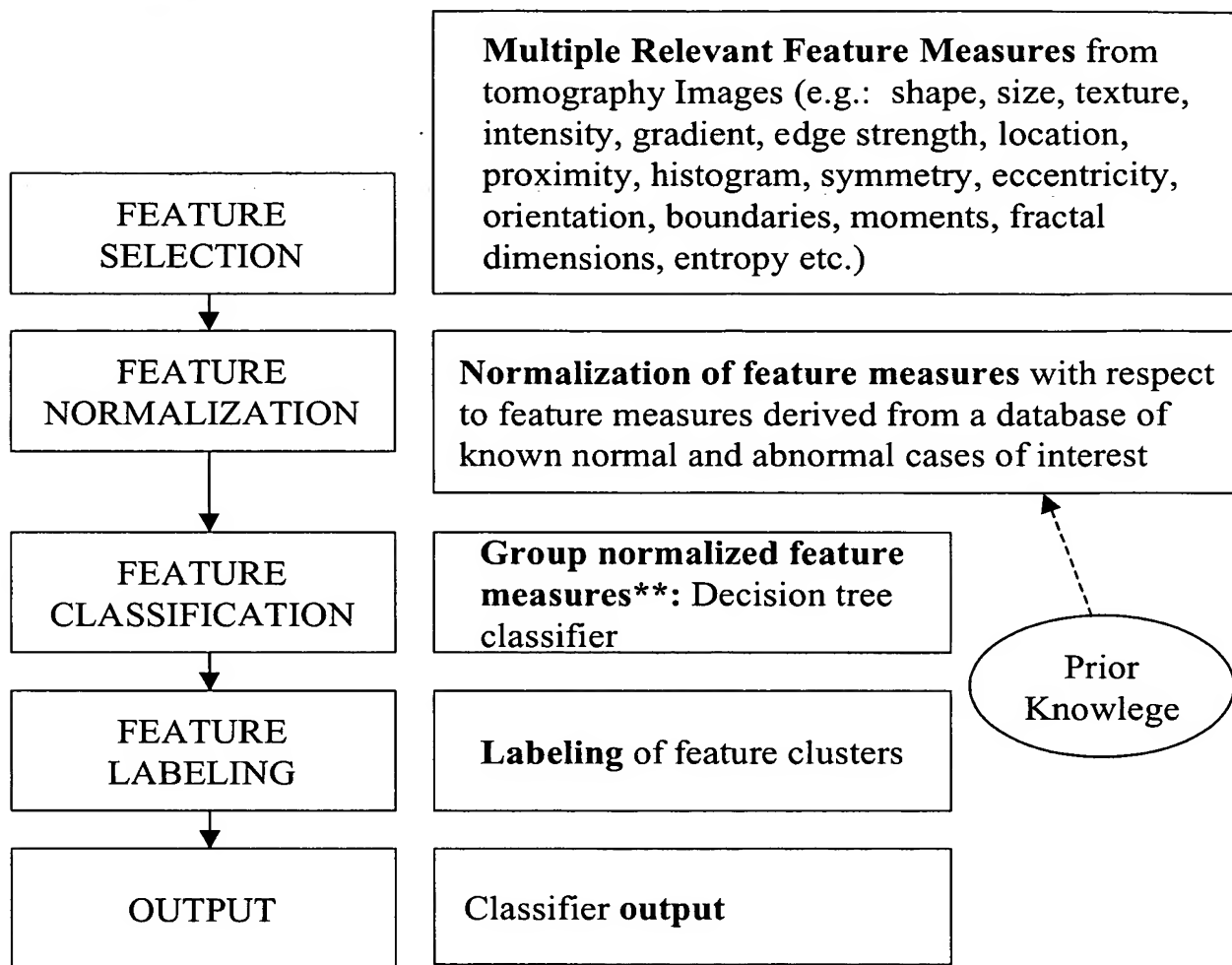


FIG. 10 Feature classification process for tomographic data.

****Several different methods can be used: Decision tree analysis, discriminant function analysis, Bayes' minimum-risk method, clustering techniques, similarity measure approach. These techniques are described in standard textbooks including: Fundamentals of digital image processing by Anil K. Jain, Prentice Hall (1988).**